**Validation Testing Plan (VTP) for SRS\_SmartCurtains**

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| **Name** | SmarCurtains\_VTP |
| **Status** | reviewd |
| **Author** | Ibrahim Ibrahim Sharaby |

**History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 23/1/2019 | Mina Moures | General Layout |
| 1.1 | 30/1/2019 | Ibrahim Sharaby | Modify some VTP(s) |

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**Testing cases**

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| **Test\_ID** | **VTP\_001** |
| **Requirement** | Checks pressing the up button, and how it affects curtains motor |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the up button for 2 sec 4. Check the motor status |
| **Expected output** | The motor shall lifts the curtains up until the up button is released |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_001 , SRS\_002, SRS\_3 |

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| **Test\_ID** | **VTP\_002** |
| **Requirement** | Checks pressing the up button, and how it affects curtains motor |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the up button for less than 2 sec 4. Check the motor status |
| **Expected output** | The motor shall lifts the curtains up till  The upper limit of the curtains |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_004 |

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| **Test\_ID** | **VTP\_003** |
| **Requirement** | Checks pressing the down button, and how it affects curtains motor |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the down button for 2 sec 4. Check the motor status |
| **Expected output** | The motor shall lifts the curtains down until the up button is released |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_005, SRS\_006, SRS\_007 |

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| **Test\_ID** | **VTP\_004** |
| **Requirement** | Checks pressing the down button, and how it affects curtains motor |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the down button for less than 2 sec 4. Check the motor status |
| **Expected output** | The motor shall lifts the curtains down till the down limit of the curtains |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_008 |

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| **Test\_ID** | **VTP\_005** |
| **Requirement** | Checks pressing the mode button, and how it affects choosing a certain curtains |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the mode button 4. Check the LED of the chosen curtain |
| **Expected output** | One of the three Curtains’ LEDs should be flash |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_009, SRS\_010 |

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| --- | --- |
| **Test\_ID** | **VTP\_006** |
| **Requirement** | Checks pressing the mode button, and how it affects choosing a certain curtains |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the mode button more than 3 times 4. Check if it starts from the first Curtain |
| **Expected output** | One of the three Curtains’ LEDs should be flash |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_011 |

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| **Test\_ID** | **VTP\_007** |
| **Requirement** | Checks the motor status when it reaches the upper/lower Curtains’ limits |
| **Steps** | 1. Power the system up 2. Flash the software 3. Push the up/down button less than 2 sec 4. Check if Curtain’s motor stops when it reaches either the upper/lower Curtain’s limits |
| **Expected output** | The Curtain’s motor should stop when  it reaches either the upper/lower Curtain’s limits |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_012, SRS\_013 |

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| --- | --- |
| **Test\_ID** | **VTP\_008** |
| **Requirement** | Checks the motor status when the power id off |
| **Steps** | 1. Push on one of the system’s buttons |
| **Expected output** | The Curtain’s motor should not respond |
| **Status** | Not tested |
| **Obtained** | Not tested |
| **Cover** | SRS\_014 |

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| **Appreciations** | **Meaning** |
| **sec** | Second |
| **msec** | mille second |
| **SM** | Smart curtains |